

0427/06 09/867595

CJC

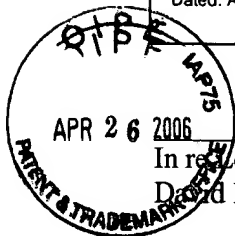
I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV842274869US, on the date shown below in an envelope addressed to: Attention: Certificate of Correction Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Dated: April 26, 2006

Signature:

*Sarah J. Buta*  
(Sarah J. Buta)

Docket No.: 13220/022001; P5835  
(PATENT)



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re: Letters Patent of:  
David Boreham et al.

Patent No.: 7,020,662

Issued: March 28, 2006

For: METHOD AND SYSTEM FOR  
DETERMINING A DIRECTORY ENTRY'S  
CLASS OF SERVICE BASED ON THE  
VALUE OF A SPECIFIER IN THE ENTRY

**Certificate**  
**MAY 02 2006**  
**of Correction**

**REQUEST FOR CERTIFICATE OF CORRECTION**  
**PURSUANT TO 37 CFR 1.322**

Attention: Certificate of Correction Branch  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Upon reviewing the above-identified patent, Patentee noted typographical errors which should be corrected.

In the Claims:

In Claim 6, Column 39, Line 51, replace "(DAPS)" with --(DAP)--.

In Claim 11, Column 40, Line 7, insert the word --target-- after "first".

In Claim 11, Column 40, Lines 8-9, remove the phrase --, wherein each of the plurality of attribute-values pairs--.

In Claim 13, Column 40, Line 37, insert the word --the-- after "with".

**MAY 3 2006**

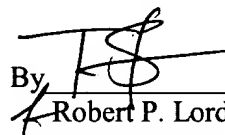
The errors were not in the application as filed by applicant; accordingly no fee is required.

Enclosed for your reference are the claims as amended. Transmitted herewith is a proposed Certificate of Correction effecting such amendment. Patentee respectfully solicits the granting of the requested Certificate of Correction.

Applicant believes no fee is due with this request. However, if a fee is due, please charge our Deposit Account No. 50-0591, under Order No. 13220/022001 from which the undersigned is authorized to draw.

Dated: April 26, 2006

Respectfully submitted,

By  #45,079  
Robert P. Lord THOMAS SCHERER  
Registration No.: 46,479  
OSHA · LIANG LLP  
1221 McKinney St., Suite 2800  
Houston, Texas 77010  
(713) 228-8600  
(713) 228-8778 (Fax)

**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**

Page 1 of 1

PATENT NO. : 7,020,662  
APPLICATION NO. : 09/867,595  
ISSUE DATE : March 28, 2006  
INVENTOR(S) : David Boreham et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Claim 6, Column 39, Line 51, replace "(DAPS)" with "--(DAP)--".

In Claim 11, Column 40, Line 7, insert the word --target-- after "first".

In Claim 11, Column 40, Lines 8-9, remove the phrase --, wherein each of the plurality of attribute-values pairs--.

In Claim 13, Column 40, Line 37, insert the word --the-- after "with".

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV842274869US, on the date shown below in an envelope addressed to:  
Attention: Certificate of Correction Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Dated: April 26, 2006

Signature: 

(Sarah J. Buta)

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Robert P. Lord  
OSHA · LIANG LLP  
1221 McKinney St., Suite 2800  
Houston, Texas 77010

1

3 2006

# Examiner-Initiated Interview Summary

Application No.

09/867,595

Applicant(s)

BOREHAM ET AL.

Examiner

Kuen S. Lu

Art Unit

2167

## All Participants:

(1) Kuen S. Lu.

(2) Aly Z. Dossa.

Status of Application: Allowed

(3) \_\_\_\_\_

(4) \_\_\_\_\_

Date of Interview: 31 August 2005

Time: 11:48AM

## Type of Interview:

☒ Telephonic

☐ Video Conference

☐ Personal (Copy given to: ☐ Applicant ☐ Applicant's representative)

Exhibit Shown or Demonstrated: ☐ Yes ☒ No

If Yes, provide a brief description:

## Part I.

Rejection(s) discussed:

1-32

Claims discussed:

1-32

Prior art documents discussed:

n/a


## Part II.

### SUBSTANCE OF INTERVIEW DESCRIBING THE GENERAL NATURE OF WHAT WAS DISCUSSED:

*The Examiner proposed the attached amendments in order to overcome the prior art of records, and the Applicant agreed on the Examiner's proposal and authorizations have been given.*

## Part III.

- ☒ It is not necessary for applicant to provide a separate record of the substance of the interview, since the interview directly resulted in the allowance of the application. The examiner will provide a written summary of the substance of the interview in the Notice of Allowability.
- ☐ It is not necessary for applicant to provide a separate record of the substance of the interview, since the interview did not result in resolution of all issues. A brief summary by the examiner appears in Part II above.

  
MOHAMMAD ALI  
PRIMARY EXAMINER

  
(Examiner/SPE Signature)

\_\_\_\_\_  
(Applicant/Applicant's Representative Signature – if appropriate)

Concerning claims 1-32 presented in the Amendments, dated December 22, 2004, the Applicant agreed to amend claims 1-32 as shown below:

Concerning claims 1-32 presented in the Amendments, dated December 22, 2004, the Applicant agreed to amend claims 1-32 as shown below:

creating a CoS scheme,

wherein the CoS Definition entry has a CoS specifier and a value for the CoS specifier,

wherein the value of the first attribute type corresponds to a relative distinguishing name (RDN) of the CoS template entry associated with the CoS definition entry, and wherein the CoS template entry comprises at least one attribute value; and

wherein the at least one of the plurality of target entries is within a scope of a parent of the CoS definition entry, and

wherein the directory server supports a Directory Access Protocol (DAP).

2. (Cancel).

3. (Cancel).

4. (Cancel).

5. (Currently Amended) The method of claim 1, wherein the CoS definition entry comprises a list of attribute types, wherein the values associated with the list of attribute types are provided by the CoS scheme using the CoS template en

6. (Cancelled)

7. (Cancelled)

8. (Cancelled)

9. (Cancelled)

10. (Currently Amended) An apparatus comprising:

a directory server comprising:

a plurality of target entries;

a CoS scheme,

wherein the CoS scheme comprises a CoS definition entry and a CoS template entry,

wherein the CoS Definition entry has a CoS specifier and a value for the CoS specifier,

wherein the value of the CoS specifier in the CoS definition entry appears in the at least one of the plurality of entries as a first attribute type,

wherein the value of the first attribute type corresponds to a relative distinguishing name (RDN) of the CoS template entry associated with the CoS definition entry, and

wherein the CoS template entry comprises at least one attribute value; and  
CoS logic configured to use the CoS scheme to provide the attribute value to at least one of the plurality of target entries,

wherein the at least one of the plurality of target entries is within a scope of a parent of the CoS definition entry, and

wherein the directory server supports a Directory Access Protocol (DAPS).

11. (Cancel).

12. (Cancel).

13. (Cancel).

14.(Currently Amended) The apparatus of claim 10, wherein the CoS definition entry comprises a list of attribute types, wherein values associated with the list of attribute types are provided by the CoS scheme using the CoS template entry.

15.(Currently Amended) An apparatus comprising:

a directory server comprising:

a first target entry;

a plurality of attribute-value pairs is associated with one of a plurality of CoS template entries, and wherein each of the plurality of CoS template entries are associated with one of a plurality of CoS definition entries;

a component configured to receive a request for one of the plurality of attribute-value pairs associated with the first target entry;

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a component configured to search the plurality of attribute-value pairs to obtain the requested one of the plurality of attribute-value pairs associated with the first target entry; and

a component configured to return the requested one of the plurality of attribute-value pairs associated with the first target entry wherein the first target entry is within a scope of a parent of the CoS definition entry.

16.(Currently Amended) The apparatus as in claim 15, wherein the component configured to search the plurality of attribute-value pairs uses a set of constraints to obtain the requested one of the plurality of attribute-value pairs associated with the first target entry, wherein the set of constraints includes the scope.

17.(Currently Amended) The apparatus of claim 16, wherein the set of constraints comprises determining whether requested one of the plurality of attribute-value pairs associated with the first target entry matches a CoS definition entry associated with the requested one of the plurality of attribute-value pairs associated with the first target entry.

18.(Currently Amended) The apparatus of claim M 16, wherein the set of constraints comprises determining whether requested one of the plurality of attribute-value pairs associated with the first target entry corresponds to an RDN of a CoS template en associated with a CoS definition entry.

19.(Currently Amended) The method of claim 1, wherein the CoS definition entry comprises a CoS specifies and a list of attributes, whereby a first one of the plurality of entries within a scope of a parent of the CoS definition entry obtains values for attributes

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provided in the CoS definition entry using an attribute with a distinguishing name (DN) value contained within the first one of the plurality of entries.

20.(Currently Amended) The method of claim 19, wherein the DN points to a second one of a plurality of entries which is a valid entry.

21.(Currently Amended) The method of claim 19, wherein the DN points to a second one of the plurality of entries tar-got en y which is a valid entry and the first one of the plurality of entries uses the second one of the plurality of entries as a template.

22.(Currently Amended) The apparatus of claim 10, wherein the CoS definition entry comprises a CoS specifier and a list of attributes, whereby a first one of the plurality of target entries within a scope of a parent of the CoS definition entry obtains values for attributes provided in the CoS Definition entry using an attribute with a distinguishing name (DN) value contained within the first one of the plurality of target entries.

23.(Currently Amended) The apparatus of claim 22, wherein the DN points to a second one of the plurality of target entries which is a valid entry.

24.(Currently Amended) The apparatus of claim 22, wherein the DN points to a second one of the plurality of target entries which is a valid entry and the first one of the plurality of target entries uses the second one of the plurality of target entries as a template.

25.(Currently Amended) The apparatus of claim 15, wherein the plurality of attribute-value pairs uses an indirect CoS scheme.

26.(Currently Amended) The apparatus of claim 25, wherein the component configured to search the plurality of attribute-value pairs to obtain the requested one of the plurality of attribute-value pairs associated with the first target entry includes functionality to

apply at least one constraint in a set of constraints to obtain the requested one of the plurality of attribute-value pairs.

27. (Currently Amended) The apparatus in claim 26, wherein applying the set of constraints determining whether a CoS specifier associated with the component configured to search SM the plurality of attribute-value pairs for the requested one of the plurality of attribute-value pairs associated with the first target entry matches a valid second target entry.

28. (Currently Amended) The apparatus as in claim 27, wherein the second target entry comprises an attribute provided by the indirect CoS scheme.

29. (Cancelled)

30. (Cancelled)

31. (Cancelled)

32. (Cancelled)



Supp.

Notice of Allowability

|                 |                |  |
|-----------------|----------------|--|
| Application No. | Applicant(s)   |  |
| 09/867,595      | BOREHAM ET AL. |  |
| Examiner        | Art Unit       |  |
| Kuen S. Lu      | 2167           |  |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to \_\_\_\_.
2. ☐ The allowed claim(s) is/are \_\_\_\_.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).


\* Certified copies not received: \_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- |  |  |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)                                  |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                               | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date <u>11/16/2005</u> |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date ____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment  |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material         | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance                                    |
|  | 9. <input type="checkbox"/> Other ____   |

  
**MOHAMMAD ALI**  
**PRIMARY EXAMINER**

MAY 3 2006

Art Unit: 2167



**Supplemental - Allowable**

**Detailed Action**

1. This is a supplemental to the Office Action for allowable of September 9, 2005.
2. This is to acknowledge the Applicant's filing of formal drawings 1 through 24 on 2/2/2004 for replacing the original non-formal drawings 1-24, filed on 5/29/2001.

***Examiner's Amendments***

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee. Authorization for this Examiner's amendment, listed below, was given in a telephone interview with Mr. Robert P. Lord (Reg. # 46,479), on September 16, 2005. A copy of the interview summary is also attached.
4. Please replace the claims 2 and 6 as shown next:

2. (Currently Amended) The method of claim 1, wherein the COS definition entry comprises a list of attribute types, wherein the values associated with the list of attribute types are provided by the COS scheme using the COS template entry.

6. (Currently Amended) An apparatus comprising:  
a directory server comprising;  
a plurality of target entries;

**MAY 3 2006**

a COS scheme, wherein the COS scheme comprises a COS definition entry and a COS template entry, wherein the COS Definition entry has a COS specifier and a value for the COS specifier, wherein the value of the COS specifier in the COS definition entry appears in the at least one of the plurality of entries as a first attribute type, wherein the value of the first attribute type corresponds to a relative distinguishing name (RDN) of the COS template entry associated with the COS definition entry, and wherein the COS template entry comprises at least one attribute value; and  
COS logic configured to use the COS scheme to provide the attribute value to at least one of the plurality of target entries, wherein the at least one of the plurality of target entries is within a scope of a parent of the COS definition entry, and wherein the directory server supports a Directory Access Protocol (DAPS).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kuen S. Lu whose telephone number is 571-272-4114. The examiner can normally be reached on 8 AM to 5 PM, Monday through Friday. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jean R. Homere, Esq. can be reached on (571) 272-3780. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For

MAY 3 2006


Art Unit: 2167

more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

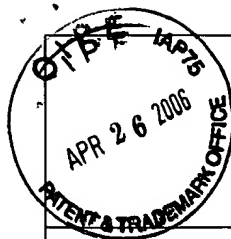
Kuen S. Lu

Examiner 

November 16, 2005

  
**MOHAMMAD ALI**  
**PRIMARY EXAMINER**

**MAY 3 2006**



## Interview Summary

Application No.

09/867,595

Applicant(s)

BOREHAM ET AL.

Examiner

Kuen S. Lu

Art Unit

2167

All participants (applicant, applicant's representative, PTO personnel):

(1) Kuen S. Lu.

(3) \_\_\_\_\_.

(2) Robert P. Lord (registration # 46,479).

(4) \_\_\_\_\_.

Date of Interview: 16 November 2005.

Type: a) ☒ Telephonic b) ☐ Video Conference

c) ☐ Personal [copy given to: 1) ☐ applicant 2) ☐ applicant's representative]

Exhibit shown or demonstration conducted: d) ☐ Yes e) ☒ No.

If Yes, brief description: \_\_\_\_\_.

Claim(s) discussed: 2 and 6.

Identification of prior art discussed: n/a.

Agreement with respect to the claims f) ☐ was reached. g) ☐ was not reached. h) ☒ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: The Applicant agreed to Examiner's amendment to correct typographical error of claims 2 (last word "en" amended to "entry.") and 6 ("DAPS" amended to "DAP").

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

MAY 8 2006

Kuen S. Lu

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

Examiner's signature, if required